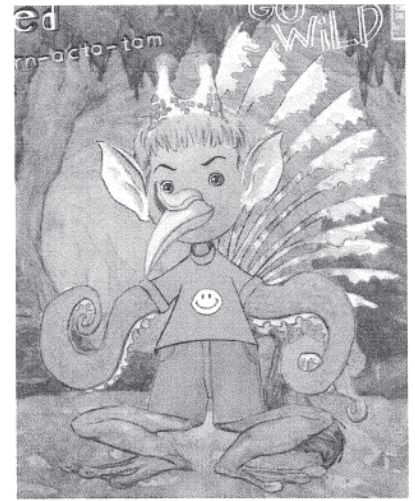


Build Yourself Wild Genetics Project



1. Create a male and female character on www.buildyourwildself.com. Give each character a name. This is couple one.
2. Save your pictures with their names in TWO places: your K drive with your Worthington user id AND in your room folder. (Bierl – 200, Hinz – 201, Walker – 202). Print both pictures on the color printer.
3. Fill out the PHENOTYPE part of the profile (attached) for both characters.
4. Using a highlighter, highlight 6 traits from the male. Highlight THE SAME 6 TRAITS from the female. Decide if the male's trait is dominant (either homozygous or heterozygous) or recessive. Then, make the female's trait the opposite if the trait looks different.
5. Using the Punnett Squares sheet, make a Punnett Square for EACH of the 6 traits, using the male and female's Genotypes. Your squares would show what couple one's children could look like.
6. Go to your room folder and choose another male and female from the ones your classmates created. Print their pictures. This will be couple two. Fill out the PHENOTYPE part of the profile for couple two. Choose the same six traits that you choose from couple one to highlight on couple two. Decide if the male's trait is dominant (either homozygous or heterozygous) or recessive. Then, make the female's trait the opposite if the trait looks different.
7. Fill out Punnett Squares for couple two's children.
8. Pick square 1, 2, 3, or 4 from all the traits and put a star on it from couple one's children. This will be the male of the next generation. Do the same thing from couple two's children. This will be the female of the next generation.
9. Fill out one last Punnett Square sheet for the next generation (the grandchildren). Pick square 1, 2, 3, or 4 from all the traits to choose one of the "grandchildren." Build this child on www.buildyourwildself.com, save it, and print it.
10. Write a reflective paragraph to explain what you learned about genetics, and/or any patterns or surprises you noticed in the grandchildren.
11. What to turn in (stapled together):
 - Pictures of Couple 1, Couple 2, and Grandchild
 - Profile sheets for Couple 1 and 2
 - 3 Punnett Square sheets (Couple 1's children, Couple 2's children, and grandchildren of Couple 1 and Couple 2)
 - Reflective paragraph (may be typed or handwritten)

This is due on _____.

Profile of _____

Trait	Phenotype (Description)		Genotype
Gender:	Male	Female	XX or XY
Skintone			SS Ss ss
Hair			HH Hh hh
Eyes			EE Ee ee
Brows			BB Bb bb
Glasses			GG Gg gg
Mouth			MM Mm mm
Headgear			DD Dd dd
Ears			RR Rr rr
Face			FF Ff ff
Arms			AA Aa aa
Bottoms			BB Bb bb
Backsides			KK Kk kk
Tails			TT Tt tt

Profile of _____

Trait	Phenotype (Description)		Genotype
Gender:	Male	Female	XX or XY
Skintone			SS Ss ss
Hair			HH Hh hh
Eyes			EE Ee ee
Brows			BB Bb bb
Glasses			GG Gg gg
Mouth			MM Mm mm
Headgear			DD Dd dd
Ears			RR Rr rr
Face			FF Ff ff
Arms			AA Aa aa
Bottoms			BB Bb bb
Backsides			KK Kk kk
Tails			TT Tt tt

Trait: _____

Trait: _____

Trait: _____

Trait: _____

Trait: _____

Trait: _____
